CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date: 09.01.2018

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Contractor : **Sri. N.M. Krishnamurthy,** Contractor, Bangalore.
Name of Work : Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.
Sample Identification : 10mm,12mm, Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 09.01.2018

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	10	0.62	543	552	14
2	Fe 500	12	0.89	554	563	15

Remarks:
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Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date: 30.01.2018

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Contractor : **Sri. N.M Krishnamurthy,** Contractor, Bangalore.
Name of the work : Improvements to road, drain and otheer works in Khatha Nagar in Ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in Ward No.16, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{10}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2018	30.01.2018	8.132	169.5	7.53
2	23.01.2018	30.01.2018	8.125	175.8	7.81
3	23.01.2018	30.01.2018	8.116	189.1	8.40

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18

Date: 20.02.2018

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Contractor : **Sri. N.M Krishnamurthy,** Contractor, Bangalore.
Name of the work : Improvements to road, drain and otheer works in Khatha Nagar in Ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in Ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{10}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2018	20.02.2018	8.156	266.8	11.86
2	23.01.2018	20.02.2018	8.164	284.5	12.64
3	23.01.2018	20.02.2018	8.136	259.1	11.52

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18

Date: 30.01.2018

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Contractor : **Sri. N.M Krishnamurthy,** Contractor, Bangalore.
Name of the work : Improvements to road, drain and otheer works in Khatha Nagar in Ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in Ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{10}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2018	30.01.2018	8.122	169.4	7.53
2	23.01.2018	30.01.2018	8.136	182.6	8.12
3	23.01.2018	30.01.2018	8.118	172.7	7.68

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date: 20.02.2018

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Contractor	: **Sri. N.M Krishnamurthy,** Contractor, Bangalore.
Name of the work	: Improvements to road, drain and otheer works in Khatha Nagar in Ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in Ward No.16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{10}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2018	20.02.2018	8.139	289.5	12.87
2	23.01.2018	20.02.2018	8.155	294.2	13.08
3	23.01.2018	20.02.2018	8.164	265.3	11.79

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30.01.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	: **Sri. N.M Krishnamurthy,** Contractor, Bangalore.
Name of the work	: Improvements to road, drain and otheer works in Khatha Nagar in Ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in Ward No.16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2018	30.01.2018	8.168	328.5	14.60
2	23.01.2018	30.01.2018	8.182	316.5	14.07
3	23.01.2018	30.01.2018	8.159	348.9	15.51

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18

20.02.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	: **Sri. N.M Krishnamurthy,** Contractor, Bangalore.
Name of the work	: Improvements to road, drain and otheer works in Khatha Nagar in Ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in Ward No.16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2018	20.02.2018	8.284	528.4	23.48
2	23.01.2018	20.02.2018	8.253	495.3	22.01
3	23.01.2018	20.02.2018	8.294	506.1	22.49

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18 30.01.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.

Agency : **Sri. N.M Krishnamurthy,** Contractor, Bangalore.

Name of the work : Improvements to road, drain and otheer works in Khatha Nagar in Ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in Ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2018	30.01.2018	8.199	320.5	14.24
2	23.01.2018	30.01.2018	8.164	358.9	15.95
3	23.01.2018	30.01.2018	8.158	346.3	15.39

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18

20.02.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.

Agency : **Sri. N.M Krishnamurthy,** Contractor, Bangalore.

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2018	20.02.2018	8.285	534.2	23.74
2	23.01.2018	20.02.2018	8.266	510.8	22.70
3	23.01.2018	20.02.2018	8.291	499.2	22.19

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30.01.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.

Agency : **Sri. N.M Krishnamurthy,** Contractor, Bangalore.

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
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2	23.01.2018	30.01.2018	8.169	339.4	15.08
3	23.01.2018	30.01.2018	8.188	346.1	15.38

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